10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DCTN4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13454A

Specification

DCTN4 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9UJW0
Other Accession	Q9QUR2, Q8CBY8, NP_057305.1, A0A4X1TB62
Reactivity	**Human**
Predicted	**Mouse, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**52337**
Antigen Region	**1-30**

DCTN4 Antibody (N-term) - Additional Information

Gene ID 51164

Other Names
Dynactin subunit 4, Dyn4, Dynactin subunit p62, DCTN4

Target/Specificity
This DCTN4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DCTN4.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DCTN4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DCTN4 Antibody (N-term) - Protein Information

Name DCTN4 (HGNC:15518)

Function Part of the dynactin complex that activates the molecular motor dynein for ultra-processive transport along microtubules.

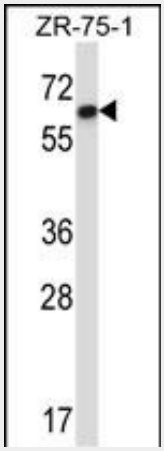
Cellular Location
Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, stress fiber {ECO:0000250|UniProtKB:Q9QUR2}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q9QUR2}. Cytoplasm, myofibril, sarcomere {ECO:0000250|UniProtKB:Q8CBY8}. Note=Has a punctate cytoplasmic distribution as well as centrosomal distribution typical of dynactin (PubMed:10671518). Overexpression in cultured mammalian cells revealed colocalization with cortical actin, stress fibers, and focal adhesion sites, sites of potential interaction between microtubules and the cell cortex (By similarity). In skeletal muscles, costamere localization requires the presence of ANK2 (By similarity) {ECO:0000250|UniProtKB:Q8CBY8, ECO:0000250|UniProtKB:Q9QUR2, ECO:0000269|PubMed:10671518}

DCTN4 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

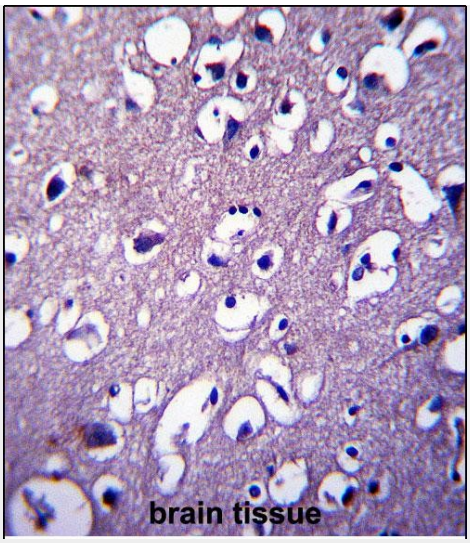
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DCTN4 Antibody (N-term) - Images



DCTN4 Antibody (N-term) (Cat. #AP13454a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the DCTN4 antibody detected the DCTN4 protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



DCTN4 Antibody (N-term) (Cat. #AP13454a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DCTN4 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

DCTN4 Antibody (N-term) - Background

DCTN4 could have a dual role in dynein targeting and in ACTR1A/Arp1 subunit of dynactin pointed-end capping. Could be involved in ACTR1A pointed-end binding and in additional roles in linking dynein and dynactin to the cortical cytoskeleton.

DCTN4 Antibody (N-term) - References

Ayalon, G., et al. Cell 135(7):1189-1200(2008)
Lim, C.M., et al. J. Biol. Chem. 281(20):14006-14014(2006)
Boultwood, J., et al. Genomics 66(1):26-34(2000)
Karki, S., et al. J. Biol. Chem. 275(7):4834-4839(2000)
Bingham, J.B., et al. Curr. Biol. 9(4):223-226(1999)